



spw 1732

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Choi et al.
App. No.: 09/934,248 GPAU: 1732
Filing Date: 08/21/2001 Examiner: Vargot, Mathieu D.
Dkt. No.: PA19-09V07 Conf. No.: 6502
For: FLEXURE BASED MACRO MOTION TRANSLATION STAGE

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

- ☒ Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449
☐ Other:

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

FEE DUE

This Information Disclosure Statement is being filed:

- ☐ within three months of the filing date of a national application or within three months of the date of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is believed required.

- ☒ before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.
- ☐ during the period specified in § 1.97(c). Each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as either First Class Mail or Express Mail, in an envelope addressed to the Commissioner for Patents.

Signed: Katrina Prati

Typed Name: Katrina Prati

Date: 10/12/04

Respectfully Submitted,



Kenneth C. Brooks,
Reg. No. 38,393
Legal Department
Molecular Imprints, Inc.
P.O. Box 81536
Austin, TX 78758-1535
(512) 339-7760
(512) 339-3799 (fax)

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

3

Complete if Known

Application Number	09/934,248
Filing Date	08/21/2001
First Named Inventor	Choi et al.
Group Art Unit	1732
Examiner Name	Vargot, Mathieu D.
Attorney Docket Number	PA19-09V07

U.S. PATENT DOCUMENTS

[illegible]

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

2

of

3

Complete if Known

Application Number

09/934.248

Filing Date

08/21/2001

First Named Inventor

Choi et al.

Group Art Unit

1732

Examiner Name

Vargot, Mathieu D.

Attorney Docket Number

PA19-09V07

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

3

of

3

Complete if Known

Application Number	09/934,248
---------------------------	------------

Filing Date	08/21/2001
--------------------	------------

First Named Inventor	Choi et al.
-----------------------------	-------------

Group Art Unit	1732
----------------	------

Examiner Name	Vargot, Mathieu D.
---------------	--------------------

Attorney Docket Number	PA19-09V07
------------------------	------------

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

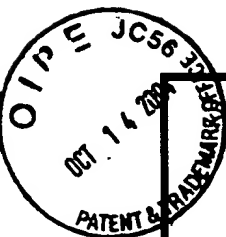
[illegible]

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231



Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

6

Complete if Known

Application Number	09/934,248
Filing Date	08/21/2001
First Named Inventor	Choi et al.
Group Art Unit	1732
Examiner Name	Vargot, Mathieu D.
Attorney Docket Number	PA19-09V07

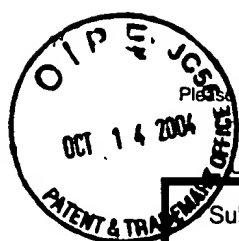
U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	C1	4,070,116		Frosch et al.	01-24-1978	
	C2	4,600,309		Fay	07-15-1986	
	C3	4,848,911		Uchida et al.	07-18-1989	
	C4	5,074,667		Miyatake	12-24-1991	
	C5	5,148,036		Matsugu et al.	09-15-1992	
	C6	5,148,037		Suda et al.	09-15-1992	
	C7	5,151,754		Ishibashi et al.	09-29-1992	
	C8	5,179,863		Uchida et al.	01-19-1993	
	C9	5,376,810		Hoenk et al.	12-27-1994	
	C10	5,424,549		Feldman	06-13-1995	
	C11	5,670,415		Rust	09-23-1997	
	C12	5,743,998		Park	04-28-1998	
	C13	5,855,686		Rust	01-05-1999	
	C14	5,948,219		Rohner	09-07-1999	
	C15	6,035,805		Rust	03-14-2000	
	C16	6,150,680		Eastman et al.	11-21-2000	
	C17	6,326,627	B1	Putvinski et al.	12-04-2001	
	C18	2002/0132482	A1	Chou	09-19-2002	
	C19	2002/0167117	A1	Chou	11-14-2002	
	C20	6,482,742	B1	Chou	11-19-2002	
	C21	6,534,418	B1	Plat et al.	03-18-2003	
	C22	6,541,360	B1	Plat et al.	04-01-2003	
	C23	2003/0081193	A1	White et al.	05-01-2003	
	C24	2003/0080471	A1	Chou	05-01-2003	
	C25	2004/0036201	A1	Chou et al.	02-26-2004	
	C26	5,468,542		Crouch	11-21-1995	
	C27	5,366,851		Novembre	11-22-1994	
	C28	5,362,606		Hartney et al.	11-08-1994	
	C29	5,324,683		Fitch et al.	06-28-1994	
	C30	5,212,147		Sheats	05-18-1993	
	C31	5,458,520		DeMercurio et al.	10-17-1995	
	C32	5,453,157		Jeng	09-26-1995	
	C33	5,439,766		Day et al.	08-08-1995	
	C34	5,431,777		Austin et al.	07-11-1995	
Examiner Signature					Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

2

of

6

Complete if Known

Application Number	09/934,248
Filing Date	08/21/2001
First Named Inventor	Choi et al.
Group Art Unit	1732
Examiner Name	Vargot, Mathieu D.
Attorney Docket Number	PA19-09V07

U.S. PATENT DOCUMENTS

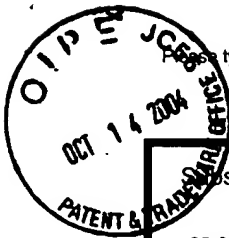
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	C35	5,422,295		Choi et al.	06-06-1995	
	C36	5,421,981		Leader et al.	06-06-1995	
	C37	5,417,802		Obeng	05-23-1995	
	C38	5,380,474		Rye et al.	01-10-1995	
	C39	5,374,454		Bickford et al.	12-20-1994	
	C40	5,330,881		Sidman et al.	07-19-1994	
	C41	5,328,810		Lowrey et al.	07-12-1994	
	C42	5,318,870		Hartney	06-07-1994	
	C43	5,244,818		Jokerst et al.	09-14-1993	
	C44	5,242,711		DeNatale et al.	09-07-1993	
	C45	5,240,878		Fitzsimmons et al.	08-31-1993	
	C46	5,108,875		Thackeray et al.	04-28-1992	
	C47	5,053,318		Gulla et al.	10-01-1991	
	C48	4,964,945		Calhoun	10-23-1990	
	C49	4,908,298		Hefferon et al.	03-13-1990	
	C50	4,921,778		Thackeray et al.	05-01-1990	
	C51	4,919,748		Bredbenner et al.	04-24-1990	
	C52	3,783,520		King	01-08-1974	
	C53	6,776,094	B1	Whitesides et al.	08-17-2004	
	C54	5,169,494		Hashimoto et al.	12-08-1992	
	C55	5,173,393		Sezi et al.	12-22-1992	
	C56	5,736,424		Prybyla et al.	04-07-1998	
	C57	5,895,263		Carter et al.	04-20-1999	
	C58	6,150,231		Muller et al.	11-21-2000	
	C59	6,274,294	B1	Hines	08-14-2001	
	C60	6,489,068	B1	Kye	12-03-2002	
	C61	6,514,672	B2	Young et al.	02-04-2003	
	C62	6,561,706	B2	Singh et al.	05-13-2003	
	C63	6,565,928	B2	Sakamoto et al.	05-20-2003	
	C64	2003/011368	A1	Mancini et al.	06-19-2003	
	C65	6,646,662	B1	Nebashi et al.	11-11-2003	
	C66	6,677,252	B2	Marsh	01-13-2004	
	C67	6,703,190	B2	Elian et al.	03-09-2004	
	C68	6,730,256	B1	Bloomstein et al.	05-04-2004	
Examiner Signature					Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box →



Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/934,248
				Filing Date	08/21/2001
				First Named Inventor	Choi et al.
				Group Art Unit	1732
				Examiner Name	Vargot, Mathieu D.
				Attorney Docket Number	PA19-09V07
Sheet	5	of	6		

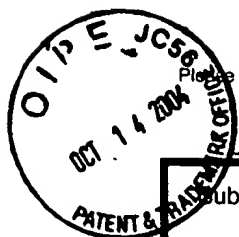
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C76	Abstract of Japanese Patent 63-138730	
	C77	Abstract of Japanese Patent 55-88332	
	C78	Abstract of Japanese Patent 57-7931	
	C79	Abstract of Japanese Patent 02-92603.	
	C80	Translation of Japanese Patent 02-92603.	
	C81	Abstract of Japanese Patent 02-24848.	
	C82	Translation of Japanese Patent 02-24848.	
	C83	HEIDARI et al., "Nanoimprint Lithography at the 6 in. Wafer Scale," Journal of Vacuum Science Technology, Nov/Dec 2000, pp. 3557-3560, vol. B, no. 18(6)/	
	C84	NERAC.COM Retro Search, "Reduction of Dimension of Contact Holes", August 31, 2004	
	C85	NERAC.COM Retro Search, "Trim Etching of Features Formed on an Organic Layer", September 2, 2004	
	C86	NERAC.COM Retro Search, "Multi-Layer Resists", September 2, 2004	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231



Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/934,248
				Filing Date	08/21/2001
				First Named Inventor	Choi et al.
				Group Art Unit	1732
				Examiner Name	Vargot, Mathieu D.
Sheet	6	of	6	Attorney Docket Number	PA19-09V07

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	C87	HU et al., "Flourescence Probe Techniques (FPT) for Measuring the Relative Efficiencies of Free-Radical Photoinitiators", s0024-9297(97)01390-9;"Macromolecules" 1998, vol. 31, no.13 , pp. 4107-4113, 1998 American Chemical Society. Published on Web 05/29/1998	
	C88	FEYNMAN, Richard P., "There's Plenty of Room at the Bottom—An Invitation to Enter a New Field of Physics," 12 pp [online]Retreived 9/23/04 from URI:http://www.zyvex.com/nanotech/feynman.html.	
	C89	CIBA SPECIALTY CHEMICALS BUSINESS LINE COATINGS, "What is UV Curing?", 45 pp [online]Retreived 9/24/04 from URL:http://www.cibasc.com/image.asp?id=4040.	

Examiner Signature		Date Considered	
-------------------------------	--	----------------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231